Participating quarry information (Long version)

1. Contact information

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<thead>
<tr>
<th>Company:</th>
<th>PT Indocement Tunggal Prakarsa Tbk. – Cirebon Plant</th>
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<tbody>
<tr>
<td>Quarry:</td>
<td>Cirebon Quarry</td>
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<td>City:</td>
<td>Cirebon</td>
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<td>Region:</td>
<td>Jawa Barat</td>
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<td>Country:</td>
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2. Quarry description

A. General Description:
The extraction site is located approximately 15 km west of Cirebon in the Kromong mountains which is an area of sloping hills, moderate and steep with a height of about 250 meters above sea level. The size of the extraction site is 346 ha (Mine License No. LH 503/Kep.469/Dis Hut Tamb/2006 Date 27 September 2006 is valid until 18 September 2036). Due to the ongoing mining at the extraction site, most parts of the quarry are characterized by recently created cliffs and rocky plateaus. Restoration activities are in progress in some areas next to the quarry, for example at the buffer zone between the quarry and a nearby village. The plant maintains its own nursery next to the quarry to support its recultivation activities.

Directly to the north of the active mining area are hot springs that were developed into a recreational facility and tourist attraction. Water retention pools next to the hot springs are used by the local communities for fishing even it is prohibited by Indocement due to safety reasons.
B. Topographical description:

Cirebon quarry is located in Gempol District, Cirebon Region, West Java Province, on the Cirebon-Bandung main road at km 20. It is bordered by three villages, namely West Palimanan, Cikeusal, and Cupang.

In general, the mining area’s topography is sloping hills with the height difference between 40 - 250 m. To the north side of the active mining area, there is a small hill, called Mount Blindis.

There are several intermittent rivers along the quarry. Surface water is collected and retained in ponds during the rainy season as a water reserve for the dry season.
C. Habitats, flora & fauna description:

The active quarry includes habitats typical of recent mining activities, like limestone cliffs and level, rocky plateaus. In some areas, small temporary wetlands form after rain, and in areas where mining has temporary ceased shrubs and early forest development can be found. The water run-off from the quarry is channeled into a group of water retention pools to the north-east of the quarry, and these have developed a rich vegetation of reeds. Small-scale farming is also found immediately to the north-east of the quarry. To the south, the quarry borders on forested hills of the Kromong range. To the north side of the active mining area, there is a small forested hill called Mount Blindis. Due to the plant's mining policy, this area was not mined. Only the lower half of the slopes is accessible through artificial benches and small roads and paths created during the mining process of adjacent areas. The upper parts and summit region are not readily accessible because the slope is steep and the vegetation cover so thick as to be virtually impenetrable. This steep hill is entirely covered in thick bushes and stands of low trees, like Java palisander, mango, mahogany, *Acacia formis* and Indian rosewood, among others.

Survey activities at the plant have so far recorded 81 bird species, 5 mammals, 6 reptiles and at least 5 amphibians. The highest diversity is found in the wetlands / retention pools to the north-east of the quarry and in the forests around the mining site, mostly Mount Blindis.

Bird species of note include the Java Sparrow (*Padda oryzivora*), Black-banded Barbet (*Megalaima javensis*), Green Junglefowl (*Gallus varius*), and Crested Serpent-eagle (*Spilornis cheela*). The Peregrine Falcon (*Falco peregrinus*) was observed at the site and may be found to breed there. The quarry is also located along a migration route for soaring bird species, and flocks of Oriental Honey Buzzards (*Pernis ptilorhynchus*), Chinese Goshawks (*Accipiter soloensis*) and Japanese Goshawks (*Accipiter gularis*) can often be seen during the migration season. Within the mining zone of the quarry, Savanna Nightjars (*Caprimulgus affinis*) are commonly found. Reptiles include the Water monitor (*Varanus salvator bivittatus*) at the retention ponds, and the Java Spitting Cobra (*Naja sputatrix*) which may be widespread. The site hosts two groups of Java Monkey (*Macaca fascicularis*), one of which inhabits Mount Blindis. A storage hall of the plant harbors a very large Fruit Bat day roost of several thousand individuals.
Group of Fruit Bats roosting

Java Monkey (Macaca fascicularis)

Crested Serpent-eagle (Spilornis cheela)
3. Ongoing nature projects

A. Nature protection projects

In order to provide a scientific framework for biodiversity management at the site, PT Indocement Palimanan - Cirebon collaborates with Bogor Institute of Agriculture (IPB) – Faculty of Forestry.

- There is an ongoing biodiversity study of 500 ha including the quarry and plant site by Bogor Institute of Agriculture (IPB). Based on the study, a biodiversity conservation zone is being established at Mount Blindis (located in the Mine License Boundary) of 50 ha.
- Some projects to increase public awareness of biodiversity around the quarry are being continued.
- Project of endemic and/or rare breeding birds are in the state of exploration together with Bogor Institute of Agriculture (IPB).

B. Socio-economical projects

- Once a year, in September, there will be a quarry open day: Cirebon plant invites high school students to observe the mining process and local biodiversity.

4. References

- Biodiversity Survey Report – By Jochen Roeder (HTC Leimen, Germany)
- Protection of Biodiversity, Reduction of Greenhouse Gas Emissions and Biological Reclamation of Mining area in the Palimanan Factory, Cirebon – Bogor Institute of Agriculture (IPB) – Faculty of Forestry
- Progress Reports of Mentoring Protection Biodiversity, Reduction of Greenhouse Gas Emissions Biologically, as well as Reclamation Planning Areas Mining in Palimanan Factory, Cirebon by Bogor Institute of Agriculture (IPB)